

**LOW LIMIT IMMERSION** TEMPERATURE **THERMOSTAT TLC** Series

The TTLC single point immersion temperature thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor encapsulated in a 6.35 mm (0.25") OD, 304 series stainless steel probe and is available in various lengths (see ordering chart) All probes provide excellent heat transfer, fast response and resistance to moisture penetration. Two enclosure styles are available.

### SPECIFICATION:

Power Supply...... 12 to 28 Vac/dc Consumption.....50 mA max Relay Contacts......SPDT, Form C contacts (N.O. and N.C.) 5 Amps @ 30 Vdc / 250 Vac resistive 1.5 Amps @ 30 Vdc / 250 Vac inductive Relay Action...... ...... Activates on temperature fall Setpoint Operation....... Single-turn knob-pot on pcb Adjustable Setpoint...... -4 to 10°C (25 to 50°F) Setpoint Temperature ....Low/Mid/High jumper selectable Differential 1.1/2.8/5.6°C (2/5/10 °F) Temperature Sensor...... 10K ohm curve matched precision thermistor Sensor Accuracy......±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F) Probe sensing Range ..... -20 to 105°C (-4 to 221°F) Probe Material ...... 304 Series Stainless Ste Probe Dimensions......... 0.25" (6.35 mm) Diameter Wire Material ...... PVC insulated, paralle Operating Conditions .... -10 to 50°C (14 to 122° 5 to 95%RH nd -conden 22 to 158°F), Storage Conditions...... -30 to 70°C non-condensing 5 to 95%RH 5VB, IP61 (NEMA (A) ABS, UL94 Enclosure... VB, IP65 (NEM (D)-ABS, UL9 rew terminal to 22 AWG)

#### PART NUMBER SELECTED

# PRODUCT SELECTION INFORMATION:

**GREYSTONE** 

MODEL Product Description											
Low Limit Immersion Temperature thermostat											
	CODE			Fitting							
		N S		Nylon, 1/2" NPT							
		3	•	Brass, 1/2" NPT, Spring-loaded							
				со	DE	Enclosure					
				A:	24	ABS Enclosure					
				l D	24	ABS Enclosure, Hinged Cover					
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						со	DE	Prob	e Le	ngth	
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		- 1		- 1		٩		150 ı			
						<b>D</b> 200 mm (8")					
								COL	DE	Adjustable Setpoint Range	
								1		-4° - 10°C (25°- 50°F)	
							'				

# WIRIN

Wiring Connections...... Sal

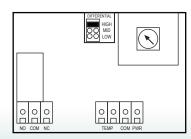
Terminal unction **PWR** wer Supply

ower Supply Common COM TEMP (2) Temperature Sensor Input

NO Relay Output - Normally Open Contact

COM Relay Common

NC Relay Output - Normally Closed Contact















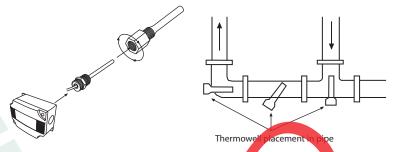
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## **TYPICAL INSTALLATION:**

For complete installation and wiring details, please refer to the product installation instructions.

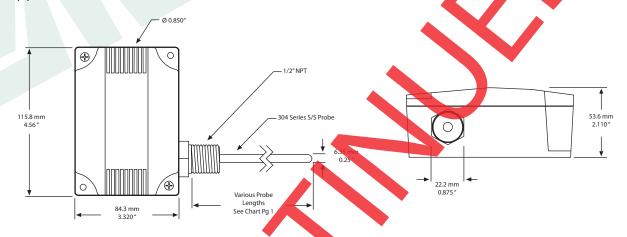
NOTE: All immersion sensors require a thermowell (sold separately)

The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.

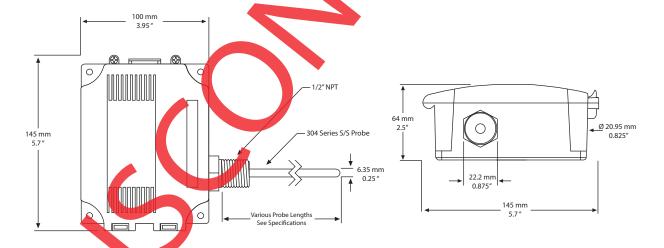


### **DIMENSIONS:**

**ABS Enclosure (A)** 



#### **Hinged ABS Enclosure (D)**



dreystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.